

Some Key References Regarding the ABI 310 and STR Typing

- Buel, E., Schwartz, M., and LaFountain, M. J. (1998) Capillary electrophoresis STR analysis: Comparison to gel-based systems. *J. Forensic Sci.* 43(1): 164-170.
- Butler, J.M. (2005) *Forensic DNA Typing: Biology, Technology, and Genetics of STR Markers (2nd Edition)*. Elsevier Science/Academic Press: New York.
- Butler, J. M., Buel, E., Crivellente, F., and McCord, B. R. (2004) Forensic DNA typing by capillary electrophoresis using the ABI Prism 310 and 3100 genetic analyzers for STR analysis. *Electrophoresis* 25: 1397-1412.**
- Clayton, T.M. Whittaker, J.P., Sparkes, R., and Gill, P. (1998) Analysis and interpretation of mixed forensic stains using DNA STR profiling. *Forensic Sci. Int.* 91: 55-70.
- Edwards, A., Civitello, A., Hammond, H. A., and Caskey, C. T. (1991) DNA typing and genetic mapping with trimeric and tetrameric tandem repeats. *Am. J. Hum. Genet.* 49: 746-756.
- Isenberg, A. R., Allen, R. O., Keys, K. M., Smerick, J. B., Budowle, B., and McCord, B. R. (1998) Analysis of two multiplexed short tandem repeat systems using capillary electrophoresis with multiwavelength fluorescence detection. *Electrophoresis*. 19(1): 94-100.
- Holt, C. L., Buoncristiani, M., Wallin, J. M., Nguyen, T., Lazaruk, K. D., and Walsh, P. S. (2002) TWGDAM validation of AmpFISTR PCR amplification kits for forensic DNA casework. *J. Forensic Sci.* 47(1): 66-96.
- Kimpton, C. P., Gill, P., Walton, A., Urquhart, A., Millican, E. S., and Adams, M. (1993) Automated DNA profiling employing multiplex amplification of short tandem repeat loci. *PCR Meth. Appl.* 3: 13-22.
- LaFountain, M. J., Schwartz, M. B., Svete, P. A., Walkinshaw, M. A., and Buel, E. TWGDAM validation of the AmpFISTR® Profiler Plus™ and AmpFISTR COfiler™ STR multiplex systems using capillary electrophoresis, *Journal of Forensic Sciences* (2001) 46(5):1191-1198.
- Lazaruk, K., Walsh, P. S., Oaks, F., Gilbert, D., Rosenblum, B. B., Menchen, S., Scheibler, D., Wenz, H. M., Holt, C., and Wallin, J. (1998) Genotyping of forensic short tandem repeat (STR) systems based on sizing precision in a capillary electrophoresis instrument. *Electrophoresis*. 19(1): 86-93.
- Krenke, B. E., Tereba, A., Anderson, S. J., Buel, E., Culhane, S., Finis, C. J., Tomsey, C. S., Zachetti, J. M., Masibay, A., Rabbach, D. R., Amiott, E. A., and Sprecher, C. J. (2002) Validation of a 16-locus fluorescent multiplex system. *J. Forensic Sci.* 47(4): 773-785.
- McCord, B.R. and Butler, J.M. (2001) The application of capillary electrophoresis in the analysis of PCR products used in genetic typing, *Clinical and Forensic Applications of Capillary Electrophoresis*, J. Petersen, A. Mohammad, eds., Humana Press, Totowa , NJ, pp. 261-284.
- Moretti, T. R., Baumstark, A. L., Defenbaugh, D. A., Keys, K. M., Brown, A. L., and Budowle, B. (2001) Validation of STR typing by capillary electrophoresis. *J. Forensic Sci.* 46(3): 661-676.
- Moretti, T. R., Baumstark, A. L., Defenbaugh, D. A., Keys, K. M., Smerick, J. B., and Budowle, B. (2001) Validation of short tandem repeats (STRs) for forensic usage: performance testing of fluorescent multiplex STR systems and analysis of authentic and simulated forensic samples. *J. Forensic Sci.* 46(3): 647-660.
- Rosenblum, B.B., Oaks, F., Menchen, S., Johnson, B. (1997) Improved single-strand DNA sizing accuracy in capillary electrophoresis. *Nucleic Acids Res.* 25(19): 3925-3929.
- Wallin, J. M., Holt, C. L., Lazaruk, K. D., Nguyen, T. H., and Walsh, P. S. (2002) Constructing universal multiplex PCR systems for comparative genotyping. *J. Forensic Sci.* 47(1): 52-65.
- Walsh, P. S., Erlich, H. A., and Higuchi, R. (1992) Preferential PCR amplification of alleles: Mechanisms and solutions. *PCR Methods and Applications* 1: 241-250.
- Wenz, H. M., Robertson, J. M., Menchen, S., Oaks, F., Demorest, D. M., Scheibler, D., Rosenblum, B. B., Wike, C., Gilbert, D. A., and Efcavitch, J. W. (1998) High-precision genotyping by denaturing capillary electrophoresis. *Genome Res.* 8(1): 69-80.